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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/795,974	03/10/2004	Koichi Yata	04329.3261	2232
22852 EINDIECAN I	7590 02/11/2008 HENDERSON, FARABOW	CADDETT & DUNNIED	EXAMINER KAO, WEI PO ERIC	
LLP	hendekson, faradow	, CARRELL & DONNER		
	RK AVENUE, NW ON, DC 20001-4413	\$	ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/795,974	YATA ET AL.	·
Office Action Summary	Examiner	Art Unit	
	Wei-po Kao	2616	_
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address	••
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may od will apply and will expire SIX (6) Mitute, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 20 This action is FINAL . 2b) ☑ To 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal ma	•	ts is
Disposition of Claims		•	
4) Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.		·
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed onis/ are: a) a Applicant may not request that any objection to t Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	nccepted or b) objected the drawing(s) be held in abey rection is required if the drawing.	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Burnets See the attached detailed Office action for a light section.	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No In received in this National Stage	Э
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Attachment(s) 1) Notice of References Cited (PTO-892)	4) [] Imba-:::-:	, Summan, (DTO 442)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejection - 35 USC § 112

2. Claims 7 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 7 and 14, the phrase "such that" renders the claim indefinite because it is unclear whether the limitations following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejection - 35 USC § 103

- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as

set forth in section 102 of this title, if the differences between the subject matter sought to be

patented and the prior art are such that the subject matter as a whole would have been obvious at

the time the invention was made to a person having ordinary skill in the art to which said subject

matter pertains. Patentability shall not be negatived by the manner in which the invention was

made.

6. Claims 1-4 and 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Ekudden et al, U.S. Patent No 6163577 in view of Takeo, U.S. Patent No 6385183 and Kisor,

U.S. Patent No 6782429.

Regarding Claim 1, Ekudden et al teach that an electronic apparatus comprising: an encoder

that encodes source data to generate transmission data; a wireless communication device

that executes communication with an external device via a wireless network, and transmits

the transmission data generated by the encoder to the external device (see Abstract, Figures

4 and 5, Column 3 Line 9-67 i.e. figure 4 shows the communication between the base station and

the mobile station through a wireless network and notice that the arrows in between indicate the

communication is exchanging in between; figure 5 shows a transmitter, which is in both base

station and mobile station to process the communication data in between, or execute the

communication data to be sent); means for determining a quality with which the source data

is to be transmitted (see Column 3 Line 9-30); and means for controlling the encoder to vary

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an amount of the generated transmission data on the basis of the determined quality (see Figure 5-7, Column 3 Line 31-57). However, Ekudden et al do not teach that the apparatus, wherein comprising means for detecting a number of devices connected to the wireless communication device via the wireless network; means for determining a quality with which the source data is to be transmitted on the basis of the detected number of devices. Takeo from the same field of endeavor teaches that the apparatus, wherein comprising means for detecting a number of devices connected to the wireless communication device via the wireless network; means for determining a quality with which the source data is to be transmitted on the basis of the detected number of devices (see Abstract, Column 1 Line 45-50 56-62 i.e. from column 1 line 45-50 and 56-62 Takeo disclose a power control system to adjust the power level, thus a quality, with which the signals are sent from base stations to their managed mobile stations according to whether or not the number of the managed mobile stations is in or out of an allowable range). At the time of the invention, it would have been obvious to a person ordinary skill in the art to determine the quality related to transmitting a data base on the number of mobile devices connected to the determining device, base station. The rationale would have been that such quality help eliminate the factor of interference caused by group of mobile devices.

Still regarding to Claim 1, Ekudden et al and Takeo teach all the limitations in claim 1 except that the apparatus, wherein comprising means for determining a quality with which the source data is to be transmitted on the basis of a type of the source data. Kisor from the same field of endeavor teaches that the apparatus, wherein comprising means for

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determining a quality with which the source data is to be transmitted on the basis of a type

of the source data (see Abstract). At the time of the invention, it would have been obvious to a

person ordinary skill in the art to determine the quality related to transmitting a data based on the

type of the data. The rationale would have been that it is desired to maintain the quality of

service of various communication data through out the entire communication process; for

example, if transmission of data relies on only one quality of service parameter, quality of

service of different type of data such as voice and video will suffer.

Regarding Claim 2, Ekudden et al further teach that the electronic apparatus, wherein the

controlling means includes means for setting in the encoder a value of sampling frequency,

which is to be used in the encoding of the source data, in accordance with the determined

quality (see Column 3 Line 31-35).

Regarding Claim 3, Ekudden et al further teach that the electronic apparatus, wherein the

controlling means includes means for setting in the encoder a kind of an encoding scheme,

which is to be used in the encoding of the source data, in accordance with the determined

quality (see Abstract, Figure 6-10 e.g. the invention of Ekudden et al provides an encoding

scheme for selecting source data to encode and transmit in accordance with determined quality of

data).

Regarding Claim 4, Ekudden et al further teach that the electronic apparatus, wherein the

controlling means includes means for setting in the encoder a kind of an encoding scheme,

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which is to be used in the encoding of the source data, and a value of sampling frequency,

which is to be used in the encoding of the source data, in accordance with the determined

quality (claim 4 discloses no further limitation than claims 2 and 3, thus is rejected with the

same reasoning as for claims 2 and 3 disclosed in the same sections in the paragraph).

Regarding Claims 8-11, theses are program claims corresponding to the apparatus claims 1-4

respectively, and therefore rejected under the same reason set forth in the same section of claims

1-4 in this paragraph.

7. Claims 5 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ekudden

et al, U.S. Patent No 6163577 in view of Takeo, U.S. Patent No 6385183 and Kisor, U.S. Patent

No 6782429 as applied to claims 1 and 8 above, and further in view of Samaras et al U.S.

Publication No 20040233903.

Regarding Claim 5, Ekudden et al, Takeo and Kisor teach all the limitations in claim 1 except

that the electronic apparatus, further comprising a plurality of input devices capable of

inputting data, wherein the quality determining means includes means for detecting the

type of the source data by determining from which of the input devices the source data is

input. Samaras et al from the same field of endeavor teach that the electronic apparatus,

further comprising a plurality of input devices capable of inputting data (see Paragraph

[0001] [0010] [0040] e.g. multiple users in the EDGE network refers to multiple cellular

devices), wherein the quality determining means includes means for detecting the type of

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the source data by determining from which of the input devices the source data is input (see

Abstract, Figure 7, Paragraph [0001] [0110] e.g. to encode more than one packets from a same

user into one packet requires picking out all the packets belonging to a same user as the same

type of packet first). At the time of the invention, it would have been obvious to a person

ordinary skill in the art to implement the encoding scheme from Samaras et al in the encoding

system and method of Ekudden et al. The rationale would have been that quality of transmission

is improved due to those repetitive headers of packets belonging to a source can be reduced,

which further reduce chance of errors occurring in transmission and increase the transmission

throughput.

Regarding Claim 12, it is a program claim corresponding to the apparatus claim 5, and therefore

rejected under the same reason set forth in the same section of claim 5 in this paragraph.

8. Claims 7 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ekudden

et al, U.S. Patent No 6163577 in view of Takeo, U.S. Patent No 6385183 and Kisor, U.S. Patent

No 6782429 as applied to claims 1 and 8 above, and further in view of Lee U.S. Publication No

20040004973.

Regarding Claim 7, Ekudden et al, Takeo and Kisor teach that the electronic apparatus,

wherein the source data includes audio data (see Ekudden et al, Figures 5 and 7, Column 3

Line 36-39 i.e. a speech data is an audio data); means for determining whether a device that

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transmits image data is connected to the wireless communication device via the wireless network (in an wireless communication environment, before a wireless device is able to communicate with another device, establishment of communication between the two has to be acknowledged first, thus either one of the two knows whether or not the other device is connected via a wireless network; also note that the acknowledgement process can be done regardless whether a device transmits image data or not); the quality determining means includes means for determining, when the device that transmits image data is connected to the wireless communication device, the quality with which the source data is to be transmitted (see Kisor, Abstract, Figures 2-3, Column 2 Line 22-26 42-45 57-59, Column 3, Column 4 Line 1-9 i.e. the scheduler determines the desire QoS for each type of data such as video and audio and the data is transmitted to the proper devices, which is connected to the scheduler; also note that a video is formed by frames of images) However, Ekudden et al, Takeo and Kisor do not teach that such that transmission of the image data is executed with priority over transmission of the source data. Lee from the same field of endeavor teaches that such that transmission of the image data is executed with priority over transmission of the source data (see [0016] [0027] [0036] Line 9-14 i.e. [0036] teaches that a video data, which contains frames of image and bears higher priority is transmitted prior to a voice data, which contains audio data and bears lower priority). At the time of the invention, it would have been obvious to a person ordinary skill in the art to assign higher priority to delay sensitive data such as video data and lower priority to less delay sensitive data such as voice. The rationale would have been that it is desired to provide smooth transmission of video with minimum delay to the end user in a real time application.

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Regarding Claim 14, it is a program claim corresponding to the apparatus claim 7, and therefore

rejected under the same reason set forth in the same section of claim 7 in this paragraph.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Referring to the PTO Form 892, references are cited to show similar method and

system to process different types of data.

10. Examiner's Note: Examiner has cited particular columns and line numbers in the

references applied to the claims above for the convenience of the applicant. Although the

specified citations are representative of the teachings of the art and are applied to specific

limitations within the individual claim, other passages and figures may apply as well. It is

respectfully requested from the applicant in preparing responses, to fully consider the references

in entirety as potentially teaching all or part of the claimed invention, as well as the context of

the passage as taught by the prior art or disclosed by the Examiner.

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In the case of amending the claimed invention, Applicant is respectfully requested to indicate the

portion(s) of the specification which dictate(s) the structure relied on for proper interpretation

and also to verify and ascertain the metes and bounds of the claimed invention.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Wei-po Kao whose telephone number is (571)270-3128. The

examiner can normally be reached on Monday through Friday, 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Ricky Ngo can be reached on (571)272-3139. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

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RICKÝ Q. NGO SUPERVISORY PATENT EXAMINER